Title: "Modulation Compression Method For The
Radio Frequency Transmission of High Speed Data"
Serial No. 10/766,556
Attorney Docket No. P031686-0-07UT
Responsive to Office Action Mailed September 6, 2005
Date: September 30, 2005

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

[0047]   FIGURES 4, 4a, and 4b are [is a] representations of a carrier with the RF cycle in position three [is (exaggerated) longer in period] modulated in accordance with the preferred embodiment of the invention.

[0050]   FIGURES 7, 7a, and 7b are [is a] representations of a carrier with the RF cycle in position three [is (exaggerated) longer in period] modulated in accordance with an alternative embodiment of the invention.

[0078]   In Figure 4, for example, the RF cycle of position three (index count of three) has a longer period, therefore is of a lower frequency than the other un-modulated cycles. The receiver will detect this single aberrated cycle and note that it is in index position three. This is decoded therefore as a binary "0010". In any other frame of 16 cycles any other individual RF cycle in each of the other possible positions could instead be of a lower frequency, thus be in a different index position, and therefore be decoded as a different binary number. See Figure 5 for a complete decoding table where it shows that if, for further example, in the next frame of 16 cycles the RF cycle in position 4 (index count of four) were exaggerated the decoded binary number would be "0011" and so on for each of the possible 16 cycles in each subsequent 16 cycle frame. Figures 4a and 4b show the RF cycle of position three being modulated by amplitude and phase, respectively, as any kind of modulation of the individual RF cycle will work with the compression method of this disclosure.

[0081]   In Figure 7, for example, the RF cycle of position three (index count of three) has a longer period, therefore is of a lower frequency than the other un-modulated cycles. The receiver will detect this single aberrated cycle and note that it is in index position three. This is

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decoded therefore as a binary "0011". In any other frame of 15 cycles any other individual RF cycle in each of the other possible positions could instead be of a lower frequency, thus be in a different index position, and therefore be decoded as a different binary number. See figure 8 for a complete decoding where it shows that if, for further example, in the next frame of 15 cycles the RF cycle in position (index count of four) were exaggerated the decoded binary number would be "0011" and so on for each of the possible 15 cycles in each subsequent 15 cycle frame. Figures 7a and 7b show the RF cycle of position three being modulated by amplitude and phase, respectively, as any kind of modulation of the individual RF cycle will work with the compression method of this disclosure..